

SENG2021

Deliverable One

Team: intelligence;



Team Members

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Table of Contents

Table of Contents	2
Part 1	2
Problem Statement	3
Part 2	3
User Stories	3
Part 3	6
Low-Fidelity Prototype	6
Storyboard Interactions Graphs	6
Storyboard Interactions + UI Component Sketches	8
High-Fidelity Prototype	9

Part 1

Problem Statement

- People have ingredients at home that they do not know how to utilise in a meal plan
- There is no website that can easily show recipes of ingredients that match all of the user's requirements such as diet plan, nutrient intake, cuisine, meal type and cooking time.
- Although there may be websites with similar functions, they are hard to navigate and have outdated interfaces which can deter users from using it.
- Recipes found online often contain ingredients which may not be easily available or need to be bought.

Part 2

User Stories

Feature Find recipes based upon selected ingredients

As a person with limited ingredients at home

So that I can find recipes without having to buy more ingredients

I want to search through recipes that contains ingredients that I have

GIVEN I am on the recipe finder website

WHEN I click "add an ingredient"

THEN I put in all my wanted ingredients

WHEN I press the "Search" button

THEN the website displays recipes that match my ingredients sorted from best to least matched recipes

Feature Filter recipes based upon selected dietary requirements

As a person who is vegan

So that I can find vegan recipes

I want to filter the suggested recipes by specifying what I cannot eat

GIVEN I am on the recipe finder website

WHEN I press filters

THEN I put in all my dietary requirements

WHEN I press the "search" button

THEN the website displays all recipes that are vegan sorted by best matched to least matched

Feature Sort recipes based on nutrient information

As a person who follows keto diet

So that I can find low-carb recipes

I want to filter the suggested recipes by nutrients per serving size

GIVEN I am on the website

WHEN I type the ingredients

AND click on filter by nutrients, specifically by selecting calories and protein

THEN I can see a list of low-carb recipes that meets my desired calorie and protein intake

Feature: Filter recipes by negative search

As a person who dislikes onion and garlic

So that I can find recipes that do not include onion and garlic

I want to filter recipes by negative search, selecting the foods I want excluded

GIVEN I am on the recipe finder website

WHEN I click on “exclude ingredients”

THEN I can choose ‘onion’ and ‘garlic’ to exclude

WHEN I click the “search/filter” button

THEN I should see all the recipes that do not include the ingredients I selected

Feature: Filter recipes by time range

As a busy full-time student / part-time employee

So that I can cook a meal in less than thirty minutes

I want to filter recipes based on their total time to make

GIVEN I am on the recipe finder website

WHEN I click on “time range”

WHEN I choose a time range of 1min to maximum 30 minutes

AND I click on “search”

THEN I should see all the recipes that can be made within 30 minutes sorted by match

Feature: Filter by cuisine

As a person who prefers Thai food

So that I can find recipes for Thai food

I want to filter recipes by cuisine

GIVEN I am on the recipe finder website

WHEN I click on ‘filter by cuisine’

THEN I choose Thai as my preferred cuisine

WHEN I click on ‘search’

THEN only Thai cuisine recipes should be displayed sorted by best matched to least matched

Feature: Filter by meal type (main/dessert)

As a person who wants to make a dessert,

I want to be able to search for dessert recipes

So that I can filter out the savoury options and prepare an appropriate dish

GIVEN I have entered all my ingredients,

WHEN I click on “meal type”

THEN I choose the sweet option

WHEN I click on ‘search’

THEN I should only see various dessert options which contain my ingredients, sorted from the best match to lowest match

Feature: Display recipes which include 1 or 2 extra ingredients

As a person who wants to use up the ingredients in the pantry,

So that I still have a lot of options of dishes to make,

I want to be able to select dishes including just a few extra ingredients which I am lacking

GIVEN I am on the recipe finder website

WHEN I enter all my ingredients and search for recipes

THEN If am lacking ingredients

AND I don't have a lot of options I can make with my current pantry

THEN I should have the option to include other recipes with just a few extra ingredients

WHEN I click ‘include extra recipes’

THEN recipes with 1 or 2 extra ingredients will also be suggested

Feature: Sorting results

As an athlete who keeps track of their calorie intake

I want to makes recipes and determine their calorie count

So that I meet my advised calorie intake for the day

GIVEN I am on the recipe finder website

WHEN I add my ingredients

AND click filter by nutrients

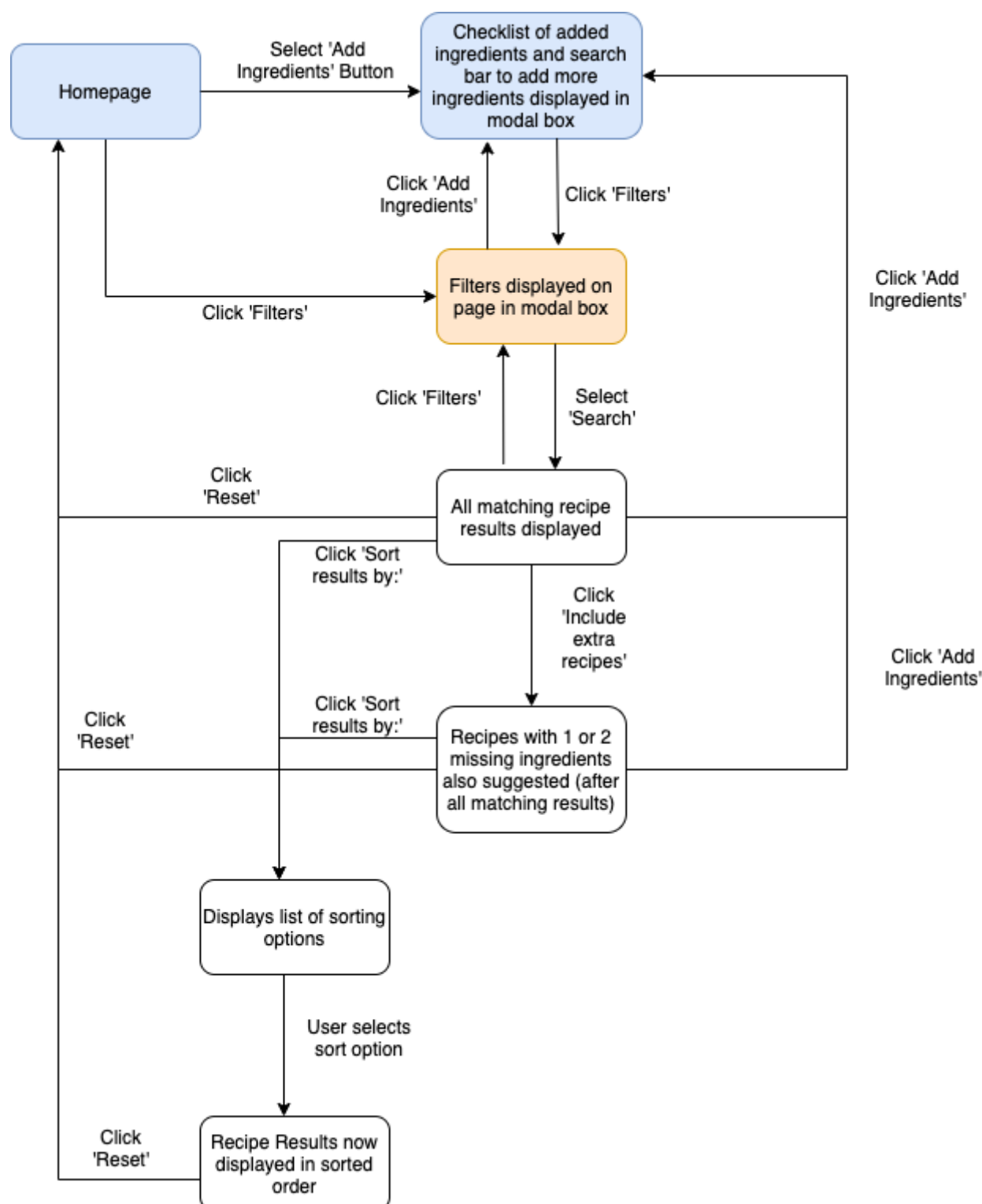
AND sort the results by low to high

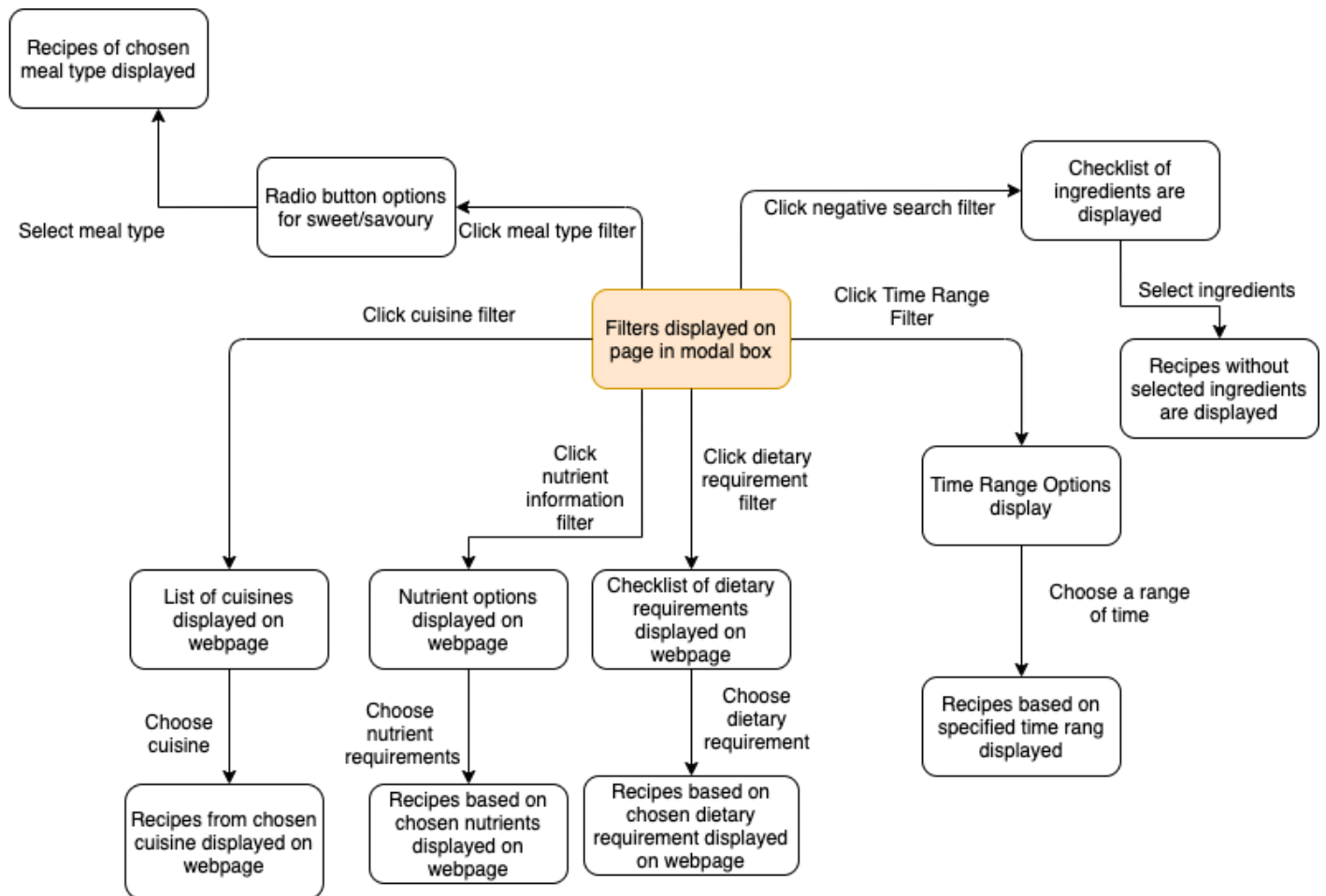
THEN a list of recipes beginning from the lowest calorie to the highest will be displayed.

Part 3

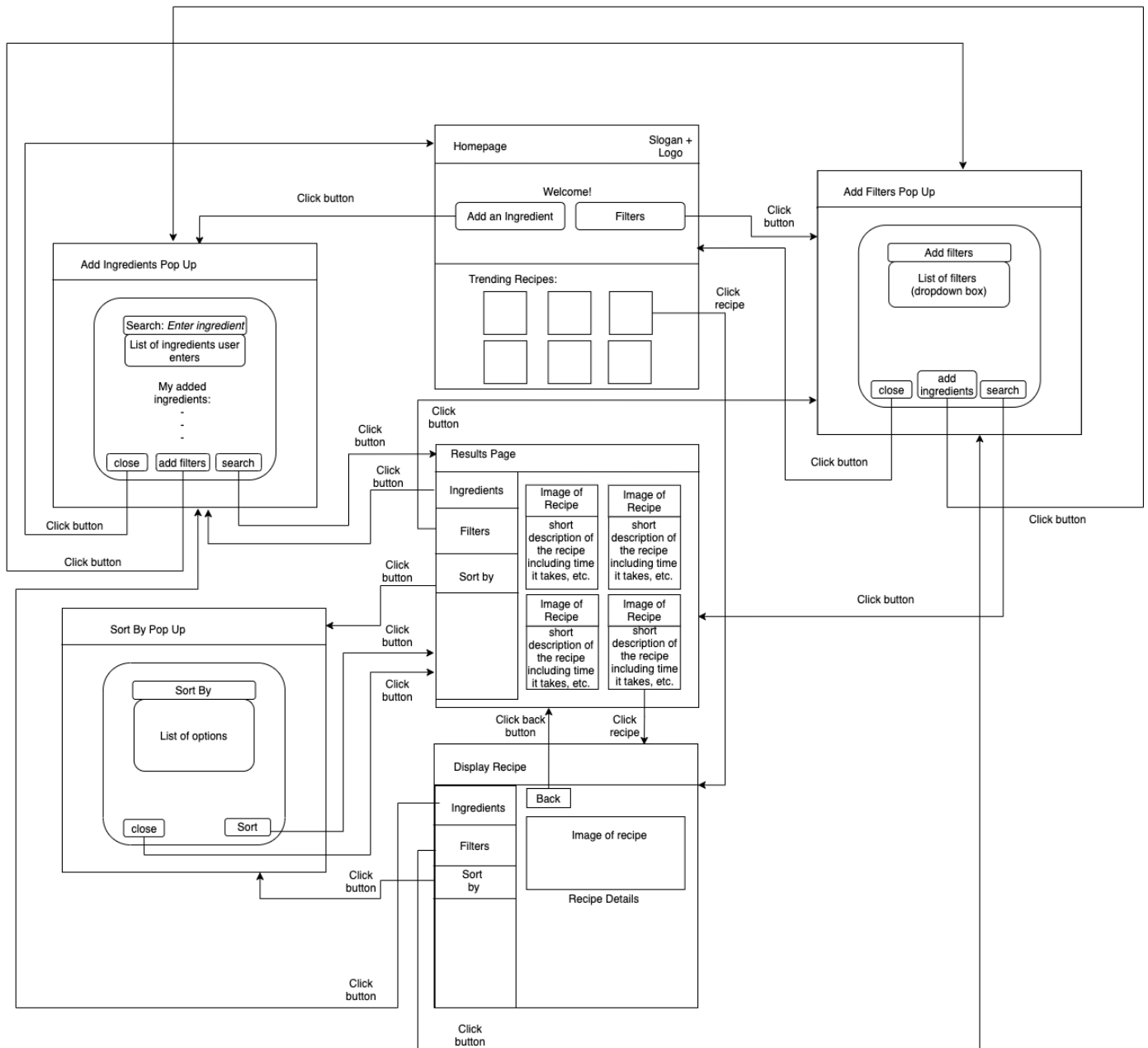
Low-Fidelity Prototype

Storyboard Interactions Graphs





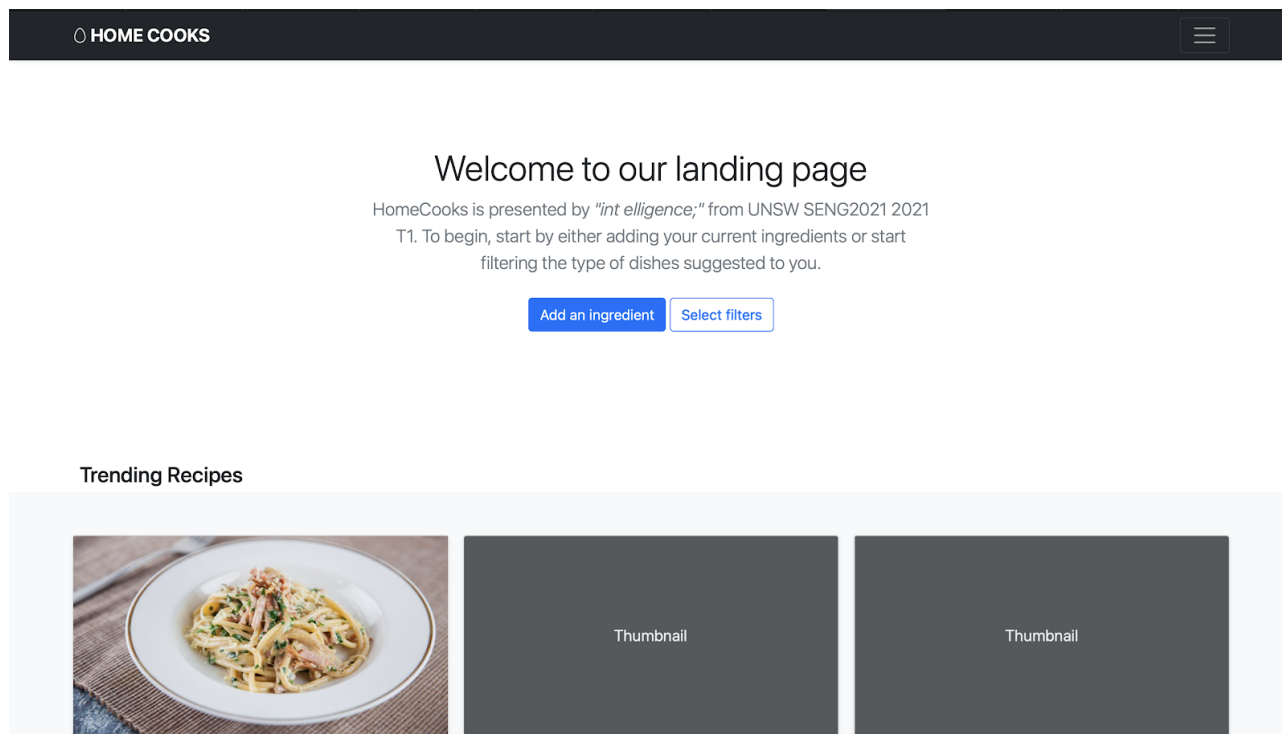
Storyboard Interactions + UI Component Sketches



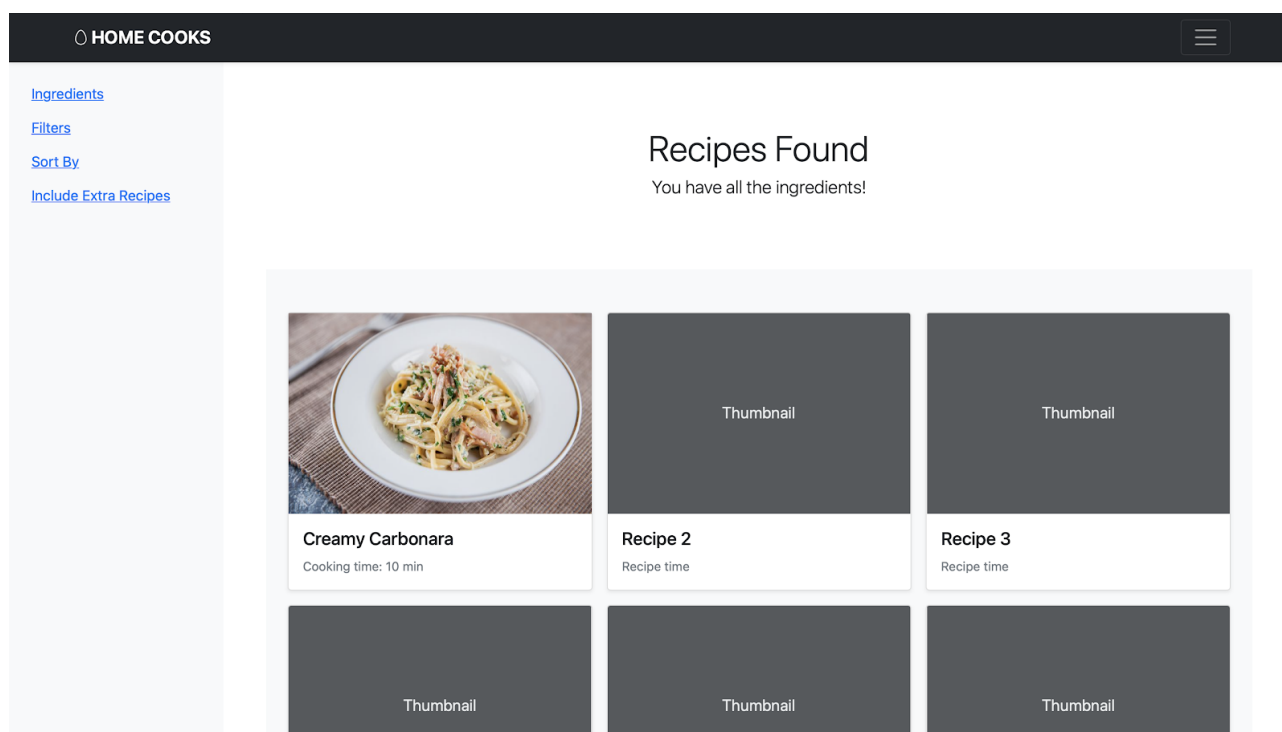
High-Fidelity Prototype

Website Link: <https://int-elligence2021.github.io/>

Home Page Screenshot:



Results Page Screenshot




Display Page Screenshot

HOME COOKS

[Ingredients](#)
[Filters](#)
[Sort By](#)
[Include Extra Recipes](#)

Back

Creamy Carbonara



Ingredients:

- ☐ 8 ounces of spaghetti
- ☐ 2 large eggs
- ☐ 1/2 cup freshly grated Parmesan
- ☐ 4 slices bacon, dices
- ☐ 4 cloves garlic, minced
- ☐ salt and pepper
- ☐ (optional) parsley

Allergens: *egg, wheat and gluten*

Serving Size: 4

Prep time: 0:05

Cooking time: 0:10

How to make:

1. In a large pot of boiling salted water, cook pasta according to package instructions; reserve 1/2 cup water and drain well.
2. In a small bowl, whisk together eggs; set aside.
3. Heat a large skillet over medium high heat. Add bacon and cook until brown and crispy, about 6-8 minutes; reserve excess fat.
4. Stir in garlic until fragrant, about 1 minute. Reduce heat to low.
5. Working quickly, stir in pasta and egg mixture, and gently toss to combine; season with salt and pepper to taste.

10